

REMARKS

This Application has been carefully reviewed in light of the Office Action mailed September 13, 2002. Claim 1 has been amended. Claim 5 has been cancelled without prejudice or disclaimer. Thus, Claims 1-4 and 6-24 are presently pending. Applicant respectfully requests reconsideration and favorable action in this case.

Allowed Claims

Applicant thanks the Examiner for the indication that Claims 16-24 are allowable.

Section 102 Rejections

The Claims 1-15 stand rejected under 35 U.S.C. § 102(e) over U.S. Patent No. 6,023,726 issued to Saksena, et al. ("Saksena"). Applicant respectfully traverses this rejection, and the assertions and determinations therein.

"A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." MPEP 2131. "The identical invention must be shown in as complete detail as is contained in the ... claim." MPEP 2131. Amended Claim 1 recites, in part, "generating at least one link in the prefetch graph between the first node and each of the second nodes, each link having a respective associated transaction weight" and "wherein each link further has a respective associated user weight." Saksena does not teach these elements of amended Claim 1 because Saksena associates only a single prefetch value with the HTML document or link. Saksena, Abstract, col. 3, lines 57-60, col. 7, lines 1-10. In contrast, amended Claim 1 recites both a "transaction weight" and a "user weight". Further, the mere mention in Saksena of a user threshold value does not teach these elements as the user threshold value of Saksena is not associated with the link, but the user. See Saksena, col. 3, lines 35-40. Therefore, Saksena does not teach each and every element of the claim as required for a 102 rejection. See MPEP 2131.

Therefore, for at least these reasons, Claim 1 is patentable over Saksena. Thus, Applicant respectfully requests allowance of Claim 1.

Dependent Claims 2-15 depend from independent Claim 1. Claim 1 is shown above to be allowable. Therefore, Claims 2-15 are allowable as depending from an allowable base claim as defining further distinctions over Saksena. For example, dependent Claim 6 recites, in part, "wherein the web page request has an associated priority and further comprising modifying the priority based on the user weight." Saksena appears to involve no teaching or suggestion of these elements of Claim 6 because Saksena appears to discuss only a single prefetch value associate with a link and does not teach or suggest a "web page request" with "an associated priority".



Conclusions

Applicants have made an earnest attempt to place this case in condition for allowance. For the foregoing reasons, and for other reasons clearly apparent, Applicants respectfully request full allowance of all pending Claims.

Although Applicant believes that no other fees are due, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

If the present application is not allowed and/or if one or more of the rejections is maintained, Applicant hereby requests a telephone conference with the Examiner and further requests that the Examiner contact the undersigned attorney to schedule the telephone conference.

Respectfully submitted,

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Marked-Up Version of Specification and Claim Amendments

For the convenience of the Examiner, all claims have been presented whether or not an amendment has been made. The specification and claims have been amended as follows:

1. **(Amended)** A method for data processing comprising:
receiving a web page request, the web page request requesting a first web page, the first web page being associated with an origin server;
associating the first web page with a first node in a prefetch graph;
associating a respective second node in the prefetch graph with each of a plurality of second web pages associated with the first web page;
generating at least one link in the prefetch graph between the first node and each of the second nodes, each link having a respective associated transaction weight;
selecting at least one of the second web pages to retrieve based on the graph; **[and]**
storing the selected second web pages at a cache server[.]; **and**
wherein each link further has a respective associated user weight.

2. The method for data processing according to Claim 1, wherein each link is associated with a hypertext link between each of the second web pages and the first web page.

3. The method for data processing according to Claim 1 and further comprising:
receiving a selection of one of the hypertext links associated with the first web page;
and
updating the transaction weight associated with the link associated with the selected hypertext link.

4. The method for data processing according to Claim 3, wherein updating the transaction weight comprises changing the transaction weight based on criteria associated with the origin server.

5. **(Cancel)** The method for data processing according to Claim 1, wherein each link further has a respective associated user weight.

6. The method for data processing according to Claim 5, wherein the web page request has an associated priority and further comprising modifying the priority based on the user weight.

7. The method for data processing according to Claim 5 and further comprising:
receiving a selection of one of the hypertext links associated with the first web page;
and
updating the user weight associated with the link associated with the selected hypertext link.

8. The method for data processing according to Claim 7, wherein updating the user weight comprises changing the user weight based on criteria associated with the origin server.

9. The method for data processing according to Claim 7, wherein updating the user weight comprises increasing the user weight to indicate an increased value associated with the link because the hypertext link associated with link has been selected.

10. The method for data processing according to Claim 1 and further comprising storing the prefetch graph at the cache server.

11. The method for data processing according to Claim 1, wherein selecting the second web page comprises:
comparing a plurality of the transaction weights; and
selecting the second web page associated with the highest valued of the transaction weights.

12. The method for data processing according to Claim 11, wherein the highest valued of the transaction weights comprises the transaction weight having the largest numerical value.

13. The method for data processing according to Claim 11, wherein comparing the transaction weights further comprises determining which of the transaction weights exceeds a prefetch threshold associated with the cache server.

14. The method for data processing according to Claim 13 and further comprising updating the prefetch threshold based on a processing load associated with the cache server.

15. The method for data processing according to Claim 13 and further comprising updating the prefetch threshold based on a processing load associated with the origin server.

16. A method for data processing comprising:
 - receiving a web page request for a first web page, the web page request having an associated origination web page;
 - associating an origination node in a prefetch graph with the origination web page;
 - associating a first node in the prefetch graph with the first web page, the first web page being associated with the origination web page;
 - updating a first link between the origination origination node and the first node, the first link having an associated first user weight and an associated first transaction weight;
 - associating a second node in the prefetch graph with each of a plurality of second web pages associated with the first web page;
 - generating a respective second link in the prefetch graph between the first node and each of the second nodes, each second link having an associated second user weight and an associated second transaction weight;
 - selecting a second web page to retrieve based on the transaction weight; and
 - storing the second web page at a cache server.
17. The method for data processing according to Claim 16, wherein updating the first link comprises updating the first transaction weight.
18. The method for data processing according to Claim 16, wherein updating the first link comprises updating the first user weight.
19. The method for data processing according to Claim 16, wherein selecting the second web page comprises determining whether the selected second web page has an associated second transaction weight greater than a prefetch threshold associated with the cache server.
20. The method for data processing according to Claim 19 and further comprising updating the prefetch threshold based on a processing load associated with the cache server.

21. The method for data processing according to Claim 16, wherein the first and second links respectively indicate hypertext links.

22. The method for data processing according to Claim 16, wherein selecting the second page comprises:

comparing a plurality of the second transaction weights; and

selecting the second web page associated with the second link having the highest valued of the transaction weights.

23. The method for data processing according to Claim 22, wherein the highest valued of the transaction weights comprises the transaction weight having the largest numerical value.

24. A system for data processing comprising:
- a memory coupled to a processor;
 - an application stored in the memory and operable to:
 - receive a web page request for a first web page, the web page request having an associated origination web page;
 - associate an origination node in a prefetch graph with the origination web page;
 - associate a first node in the prefetch graph with the first web page, the first web page being associated with the origination web page;
 - associate a first link in the prefetch graph with a hypertext link from the origination web page to the first web page;
 - associate a transaction weight with the first link based on prefetch criteria associated with an origin server associated with the prefetch graph;
 - associate a user weight with the first link based on the prefetch criteria;
 - retrieve the first web page; and
 - store the first web page.